os-nosdn-ovs overview and description

Release draft (cf88037)

OPNFV

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INTRODUCTION

This scenario installs the latest DPDK-enabled Open vSwitch component, version - 2.5.90 based on DPDK 16.07.

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SCENARIO COMPONENTS AND COMPOSITION

This scenario is currently able to be installed using the Fuel and Apex installers. For details on how to install the ovsnfv scenarion using these installer tools please refer to the installation instructions at:

- Fuel installation instruction: http://artifacts.opnfv.org/colorado/fuel/docs/installation-instruction.html

- Apex installation instruction: http://artifacts.opnfv.org/colorado/apex/docs/installation-instruction/index.html

SCENARIO USAGE OVERVIEW

After installation use of the scenario requires no further action by the user. Traffic on the private network will automatically be processed by the upgraded DPDK datapath.

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LIMITATIONS, ISSUES AND WORKAROUNDS

The same limitations that apply to using Fuel DPDK-enabled interfaces also apply when using this scenario. Including:

- Fuel9 OVS-DPDK support works only for VLAN segmentation.

- Only interfaces running the private network (and no other network) can be supported so each node needs a separate interface dedicated to the private network.

- The nodes with dpdk enabled interfaces will need to have hugepages configured and some cores reserved for dpdk.

REFERENCES

For more information on the OPNFV Colorado release, please visit http://www.opnfv.org/colorado